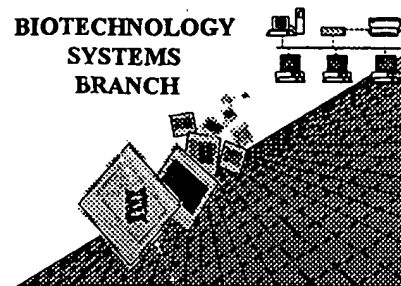


P. Bui

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/360, 685

Art Unit / Team No. : 1645

Date Processed by STIC: 3/16/2000

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TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/360,685

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

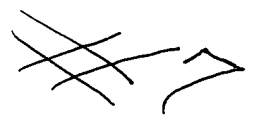
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1645



PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/360,685

DATE: 03/16/2000
TIME: 13:13:20

Input Set: I360685.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Covacci, Antonello
2 Bugnoli, Massimo
3 Telford, John
4 Macchia, Giovanni
5 Rappuoli, Rino
6 <120> TITLE OF INVENTION: Helicobacter Pylori CAI Antigen Proteins Useful For
7 Vaccines And Diagnostics
8 <130> FILE REFERENCE: CHIR0157
9 <140> CURRENT APPLICATION NUMBER: US/09/360,685
10 <141> CURRENT FILING DATE: 1999-07-26
11 <160> NUMBER OF SEQ ID NOS: 8
12 <170> SOFTWARE: PatentIn Ver. 2.1
13 <210> SEQ ID NO 1
14 <211> LENGTH: 27
15 <212> TYPE: DNA
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17 <220> FEATURE:
18 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificial
19 Sequence
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22 <210> SEQ ID NO 2
23 <211> LENGTH: 3960
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificial
28 Sequence
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32 ttttcacaac cgtgatcatt ccagccattg ttggggggtat cgctacaggc accgctgtag 180
33 gaacggtctc agggcttctt agctgggggc tcaaacaagc cgaagaagcc aataaaaccc 240
34 cagataaacc cgataaagtt tggcgcattc aagcaggaaa aggttttaat gaattcccta 300
35 acaaggaata cgacttatac agatcccttt tatccagtaa gattgatgga ggttgggatt 360
36 gggggaatgc cgctaggcat tattgggtca aaggcgggca acagaataag cttgaagtgg 420
37 atatgaaaga cgctgtaggg acttatacct tatcagggct tagaaacttt actggtgggg 480
38 atttagatgt caatatgcaa aaagccactt tacgcttggg ccaattcaat ggcaattctt 540
39 ttacaagcta taaggatagt gctgatcgca ccacgagagt ggatttcaac gctaaaaata 600
40 tctcaattga taattttgta gaaatcaaca atcgtgtggg ttctggagcc gggaggaaaag 660
41 ccagctctac ggttttgact ttgcaagctt cagaagggat cactagcgat aaaaacgctg 720
42 aaatttctct ttatgatggt gccacgctca atttggtctc aagcagcggt aaattaatgg 780
43 gtaatgtgtg gatgggcccgt ttgcaatacg tgggagcgta tttggccctt tcatacagca 840
44 cgataaacac ttcaaaagta acaggggaag tgaattttaa ccacctcact gttggcgata 900

Does Not Comply
Corrected Diskette Needed

see p. 3, too

give source of genetic material -
see item 12 (circled portion)
on Envr
summary
sheet

27

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/360,685

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Input Set: I360685.RAW

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62   ttgcttttgg acctcaagga agtccttggg gcacatcaaa acttatgttc aataatctaa 1980
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70   gcgatcaaaag catggtgaac aacctgaca attacaagta tcttatcggt aaggcatgga 2460
71   aaaatatagg gatcagcaaa acagctaatt gctctaaaat ttcggtgtat tatttaggca 2520
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75   tggctaaccg ctctaaagat attgacagc tttatgctaa ctcaggcgct caaggcaggg 2760
76   atctcttaca aaccttattg attgatagcc atgatgcggg ttatgccaga aaaatgattg 2820
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78   acatagccag tttagagcat aaaaccagcg gcttacaac tttgagcttg agtaatgcga 2940
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80   tcgccaacac cttacaagct ttaaaagacc aaaaattcgc ttcttttaga agcgcggcag 3060
81   aagtgttgta tcaatttgcc cctaaatatg aaaaacctac caatgtttgg gctaacgcta 3120
82   ttgggggaac gagcttgaat aatggctcta acgcttcatt gtatggcaca agcgcgggcg 3180
83   tagacgttta ccttaacggg caagtggag ccattgtggg cggttttgga agctatggtt 3240
84   atagctcttt taataatcgt gcgaactccc ttaactctgg ggccaataac actaattttg 3300
85   gcgtgtatag ccgtattttt gccaccagc atgaatttga ctttgaagct caaggggcac 3360
86   tagggagcga tcaatcaagc ttgaatttca aaagcgctct attacaagat ttgaatcaaa 3420
87   gctatcatta cttagcctat agcgctgcaa caagagcgag ctatggttat gacttcgct 3480
88   tttttaggaa cgcttttagt ttaaaacca gcgtgggtgt gagctataac catttaggtt 3540
89   caaccaactt taaaagcaac agcaccaatc aagtggcttt gaaaaatggc tctagcagtc 3600
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92   cgtctttaaa cacctttaaa gtgaatgcgg ctgcgaacct tttaaatacc catgccagag 3780
93   tgatgatggg tggggaatta aaattagcta aagaagtgtt tttgaatttg ggcgttggtt 3840
94   atttgcacaa tttgatttcc aatataggcc atttcgcttc caatttagga atgaggata 3900

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/360,685

DATE: 03/16/2000

TIME: 13:13:20

Input Set: I360685.RAW

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98 <212> TYPE: PRT
99 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificial
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106      Leu Ala Leu Val Gly Ala Leu Val Ser Ile Thr Pro Gln Gln Ser His
107      20          25          30
108      Ala Ala Phe Phe Thr Thr Val Ile Ile Pro Ala Ile Val Gly Gly Ile
109      35          40          45
110      Ala Thr Gly Thr Ala Val Gly Thr Val Ser Gly Leu Leu Ser Trp Gly
111      50          55          60
112      Leu Lys Gln Ala Glu Glu Ala Asn Lys Thr Pro Asp Lys Pro Asp Lys
113      65          70          75          80
114      Val Trp Arg Ile Gln Ala Gly Lys Gly Phe Asn Glu Phe Pro Asn Lys
115      85          90          95
116      Glu Tyr Asp Leu Tyr Arg Ser Leu Leu Ser Ser Lys Ile Asp Gly Gly
117      100         105         110
118      Trp Asp Trp Gly Asn Ala Ala Arg His Tyr Trp Val Lys Gly Gly Gln
119      115         120         125
120      Gln Asn Lys Leu Glu Val Asp Met Lys Asp Ala Val Gly Thr Tyr Thr
121      130         135         140
122      Leu Ser Gly Leu Arg Asn Phe Thr Gly Gly Asp Leu Asp Val Asn Met
123      145         150         155         160
124      Gln Lys Ala Thr Leu Arg Leu Gly Gln Phe Asn Gly Asn Ser Phe Thr
125      165         170         175
126      Ser Tyr Lys Asp Ser Ala Asp Arg Thr Thr Arg Val Asp Phe Asn Ala
127      180         185         190
128      Lys Asn Ile Ser Ile Asp Asn Phe Val Glu Ile Asn Asn Arg Val Gly
129      195         200         205
130      Ser Gly Ala Gly Arg Lys Ala Ser Ser Thr Val Leu Thr Leu Gln Ala
131      210         215         220
132      Ser Glu Gly Ile Thr Ser Asp Lys Asn Ala Glu Ile Ser Leu Tyr Asp
133      225         230         235         240
134      Gly Ala Thr Leu Asn Leu Ala Ser Ser Ser Val Lys Leu Met Gly Asn
135      245         250         255
136      Val Trp Met Gly Arg Leu Gln Tyr Val Gly Ala Tyr Leu Ala Pro Ser
137      260         265         270
138      Tyr Ser Thr Ile Asn Thr Ser Lys Val Thr Gly Glu Val Asn Phe Asn
139      275         280         285
140      His Leu Thr Val Gly Asp Lys Asn Ala Ala Gln Ala Gly Ile Ile Ala
141      290         295         300
142      Asn Lys Lys Thr Asn Ile Gly Thr Leu Asp Leu Trp Gln Ser Ala Gly
143      305         310         315         320
144      Leu Asn Ile Ile Ala Pro Pro Glu Gly Gly Tyr Lys Asp Lys Pro Asn

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Please Note:

Please ensure that all subsequent artificial/unknown sequences have a suitable explanation in the
<220> - <223> section.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/360,685

DATE: 03/16/2000

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Input Set: I360685.RAW

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147					340					345				350		
148	Lys	Asn	Asp	Lys	Gln	Glu	Ser	Ser	Gln	Asn	Asn	Ser	Asn	Thr	Gln	Val
149					355					360				365		
150	Ile	Asn	Pro	Pro	Asn	Ser	Ala	Gln	Lys	Thr	Glu	Val	Gln	Pro	Thr	Gln
151					370					375				380		
152	Val	Ile	Asp	Gly	Pro	Phe	Ala	Gly	Gly	Lys	Asp	Thr	Val	Val	Asn	Ile
153																400
154	Asn	Arg	Ile	Asn	Thr	Asn	Ala	Asp	Gly	Thr	Ile	Arg	Val	Gly	Gly	Phe
155					405					410						415
156	Lys	Ala	Ser	Leu	Thr	Thr	Asn	Ala	Ala	His	Leu	His	Ile	Gly	Lys	Gly
157					420					425				430		
158	Gly	Val	Asn	Leu	Ser	Asn	Gln	Ala	Ser	Gly	Arg	Ser	Leu	Ile	Val	Glu
159					435					440				445		
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161					450					455				460		
162	Gln	Val	Gly	Gly	Tyr	Ala	Leu	Ala	Gly	Ser	Ser	Ala	Asn	Phe	Glu	Phe
163																480
164	Lys	Ala	Gly	Thr	Asp	Thr	Lys	Asn	Gly	Thr	Ala	Thr	Phe	Asn	Asn	Asp
165					485					490						495
166	Ile	Ser	Leu	Gly	Arg	Phe	Val	Asn	Leu	Lys	Val	Asp	Ala	His	Thr	Ala
167					500					505				510		
168	Asn	Phe	Lys	Gly	Ile	Asp	Thr	Gly	Asn	Gly	Gly	Phe	Asn	Thr	Leu	Asp
169					515					520				525		
170	Phe	Ser	Gly	Val	Thr	Asp	Lys	Val	Asn	Ile	Asn	Lys	Leu	Ile	Thr	Ala
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178	Arg	Ser	Leu	Phe	Ser	Gly	Gly	Val	Lys	Phe	Lys	Gly	Gly	Glu	Lys	Leu
179					595					600				605		
180	Val	Ile	Asp	Glu	Phe	Tyr	Tyr	Ser	Pro	Trp	Asn	Tyr	Phe	Asp	Ala	Arg
181					610					615				620		
182	Asn	Ile	Lys	Asn	Val	Glu	Ile	Thr	Asn	Lys	Leu	Ala	Phe	Gly	Pro	Gln
183																640
184	Gly	Ser	Pro	Trp	Gly	Thr	Ser	Lys	Leu	Met	Phe	Asn	Asn	Leu	Thr	Leu
185					645					650						655
186	Gly	Gln	Asn	Ala	Val	Met	Asp	Tyr	Ser	Gln	Phe	Ser	Asn	Leu	Thr	Ile
187					660					665				670		
188	Gln	Gly	Asp	Phe	Ile	Asn	Asn	Gln	Gly	Thr	Ile	Asn	Tyr	Leu	Val	Arg
189					675					680				685		
190	Gly	Gly	Lys	Val	Ala	Thr	Leu	Ser	Val	Gly	Asn	Ala	Ala	Ala	Met	Met
191					690					695				700		
192	Phe	Asn	Asn	Asp	Ile	Asp	Ser	Ala	Thr	Gly	Phe	Tyr	Lys	Pro	Leu	Ile
193					705					710				715		720
194	Lys	Ile	Asn	Ser	Ala	Gln	Asp	Leu	Ile	Lys	Asn	Thr	Glu	His	Val	Leu

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RAW SEQUENCE LISTING
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Input Set: I360685.RAW

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196	Leu	Lys	Ala	Lys	Ile	Ile	Gly	Tyr	Gly	Asn	Val	Ser	Thr	Gly	Thr	Asn
197				740					745					750		
198	Gly	Ile	Ser	Asn	Val	Asn	Leu	Glu	Glu	Gln	Phe	Lys	Glu	Arg	Leu	Ala
199				755				760						765		
200	Leu	Tyr	Asn	Asn	Asn	Asn	Arg	Met	Asp	Thr	Cys	Val	Val	Arg	Asn	Thr
201				770				775						780		
202	Asp	Asp	Ile	Lys	Ala	Cys	Gly	Met	Ala	Ile	Gly	Asp	Gln	Ser	Met	Val
203							790					795				800
204	Asn	Asn	Pro	Asp	Asn	Tyr	Lys	Tyr	Leu	Ile	Gly	Lys	Ala	Trp	Lys	Asn
205							805					810				815
206	Ile	Gly	Ile	Ser	Lys	Thr	Ala	Asn	Gly	Ser	Lys	Ile	Ser	Val	Tyr	Tyr
207							820					825				830
208	Leu	Gly	Asn	Ser	Thr	Pro	Thr	Glu	Asn	Gly	Gly	Asn	Thr	Thr	Asn	Leu
209							835							845		
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211							850							860		
212	Gln	Asn	Ala	Pro	Phe	Ala	Gln	Pro	Ser	Ala	Thr	Pro	Asn	Leu	Val	Ala
213							865							870		880
214	Ile	Asn	Gln	His	Asp	Phe	Gly	Thr	Ile	Glu	Ser	Val	Phe	Glu	Leu	Ala
215							885					890				895
216	Asn	Arg	Ser	Lys	Asp	Ile	Asp	Thr	Leu	Tyr	Ala	Asn	Ser	Gly	Ala	Gln
217							900					905				910
218	Gly	Arg	Asp	Leu	Leu	Gln	Thr	Leu	Leu	Ile	Asp	Ser	His	Asp	Ala	Gly
219							915							920		925
220	Tyr	Ala	Arg	Lys	Met	Ile	Asp	Ala	Thr	Ser	Ala	Asn	Glu	Ile	Thr	Lys
221							930							935		940
222	Gln	Leu	Asn	Thr	Ala	Thr	Thr	Thr	Leu	Asn	Asn	Ile	Ala	Ser	Leu	Glu
223							945							950		955
224	His	Lys	Thr	Ser	Gly	Leu	Gln	Thr	Leu	Ser	Leu	Ser	Asn	Ala	Met	Ile
225							965							970		975
226	Leu	Asn	Ser	Arg	Leu	Val	Asn	Leu	Ser	Arg	Arg	His	Thr	Asn	His	Ile
227							980							985		990
228	Asp	Ser	Phe	Ala	Lys	Arg	Leu	Gln	Ala	Leu	Lys	Asp	Gln	Lys	Phe	Ala
229							995							1000		1005
230	Ser	Leu	Glu	Ser	Ala	Ala	Glu	Val	Leu	Tyr	Gln	Phe	Ala	Pro	Lys	Tyr
231							1010							1015		1020
232	Glu	Lys	Pro	Thr	Asn	Val	Trp	Ala	Asn	Ala	Ile	Gly	Gly	Thr	Ser	Leu
233							1025							1030		1035
234	Asn	Asn	Gly	Ser	Asn	Ala	Ser	Leu	Tyr	Gly	Thr	Ser	Ala	Gly	Val	Asp
235							1045							1050		1055
236	Ala	Tyr	Leu	Asn	Gly	Gln	Val	Glu	Ala	Ile	Val	Gly	Gly	Phe	Gly	Ser
237							1060							1065		1070
238	Tyr	Gly	Tyr	Ser	Ser	Phe	Asn	Asn	Arg	Ala	Asn	Ser	Leu	Asn	Ser	Gly
239							1075							1080		1085
240	Ala	Asn	Asn	Thr	Asn	Phe	Gly	Val	Tyr	Ser	Arg	Ile	Phe	Ala	Asn	Gln
241							1090							1095		1100
242	His	Glu	Phe	Asp	Phe	Glu	Ala	Gln	Gly	Ala	Leu	Gly	Ser	Asp	Gln	Ser
243							1105							1110		1115
244	Ser	Leu	Asn	Phe	Lys	Ser	Ala	Leu	Leu	Gln	Asp	Leu	Asn	Gln	Ser	Tyr

PAGE: 6

VERIFICATION SUMMARY
PATENT APPLICATION US/09/360,685

DATE: 03/16/2000
TIME: 13:13:20

Input Set: I360685.RAW

Line ? Error/Warning

Original Text
